	Application No.	Applicant(s)
Notice of Allowability	10/764,205	MUKKER, ATUL
	Examiner	Art Unit	
	USMAAN SAEED	2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the amendment filed on 03/29/2010* .

2. ☒ The allowed claim(s) is/are *1-6, and 12-15 (renumbered as 1-10)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

            International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date *01/23/2004*

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *11/10/2010* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

/Usmaan Saeed/ Examiner, Art Unit 2166	Usmaan Saeed Patent Examiner, Art Unit 2166 November 16, 2010

DETAILED ACTION

1.   This communication is in response to the amendment filed on 03/29/2010.

After thorough search and examination of the present application and in light of

the prior art made of record, claims 1-6, and 12-15 (renumbered as 1-10) are allowed.

Claims 7-11 and 16-22 have been cancelled.

EXAMINER'S AMENDMENT

2.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Attorney, Matthew Lambrinos Registration No. 56,909 on November 10, 2010.

**Please amend the claims, which were filed on 03/29/2010 with new versions
as follows:**

1. (Currently Amended) A method in a data-processing system for recovering

data, said data-processing system having a central processing unit coupled to an

operating system, memory coupled to said central processing unit, and a command line

interface to said operating system in which a user responds to a visual prompt by typing

in a command on a specified line and receives a response back from the data-

processing system; the method comprising:

utilizing said command line interface to interact with said operating system;

identifying desired data from said command line interface displayable within a

display area of said data-processing system;

automatically saving said desired data in said memory of said data- processing

system, in response to identifying said desired data from said command line interface;

testing using said data-processing system to determine if said desired data has

been deleted from said a command line of said command line interface;

automatically recovering said deleted desired data from said memory of said

data- processing system for display within said command line interface in automatic

response by said data-processing system to said desired data being deleted from said

command line of said command line interface;

automatically displaying said deleted desired data within said command line

interface, in response to automatically recovering said deleted desired data from said

memory;

permitting a the user to specify a plurality of rules for recycling said deleted

desired data that the user does not wish to recover;

prompting said user to specify said plurality of rules for recycling said deleted

desired data through a display of a graphical user interface dialog;

specifying the minimum size of said data to be recycled and/or specifying special

files/empty directories not to be recycled, and

recycling said deleted desired data according to said rules.

2. (Previously Presented) The method of claim 1 further comprising

displaying an original file of said desired data within said command line interface;

displaying an original file location of said desired data within said command line interface;

indicating within said command line interface deletion of said desired data in response to said desired data being deleted using said command line interface; and

automatically recycling said file when said file does not contain useful information.

3. (Previously Presented) The method of claim 2 further comprising

displaying with the same window of said command line interface said original file, said original file location, said indication of deletion of said desired data, and said recovered data.

4. (Original) The method of claim 3 wherein said operating system comprises a Linux-based operating system.

5. (Original) The method of claim 3 wherein said operating system comprises a Unix-based operating system.

6. (Original) The method of claim 1 wherein said operating system comprises a Windows-based operating system.

7-11. (Cancelled).

12. (Currently Amended) A data-processing system for recovering data, comprising:

a central processing unit coupled to an operating system;

memory coupled to said central processing unit; and

a command line interface to said operating system in which a user responds to a visual prompt by typing in a command on a specified line and receives a response back from the data-processing system;

said central processing unit being configured to:

utilize said command line interface to interact with said operating system;

identify desired data from a said command line interface displayable within a display area of said data-processing system;

automatically save said desired data in said memory, in response to identifying said desired data from said command line interface;

test to determine if said desired data has been deleted from said a command line of said command line interface;

automatically recover said deleted desired data from said memory for display within said command line interface in automatic response by said central processing unit to said desired data being deleted from said command line of said command line interface;

automatically display said deleted desired data within said command line

interface, in response to automatically recovering said <u>deleted </u>desired data from said

memory;

wherein said central processing unit is configured to

permit a-<u>the </u>user to specify a plurality of rules for recycling <u>said deleted desired</u>

data that the use<u>r</u> does not wish to recover;

<u>a graphical user interface, coupled to said central processing unit, configured to</u>

<u>prompt said user via a dialog to specify said plurality of rules for recycling said data;</u>

<u>specify the minimum size of said data to be recycled and/or specify special</u>

<u>files/empty directories not to be recycled; </u>and

recycle said <u>desired </u>deleted data according to said rules.

13. (Previously Presented) The system of claim 12 wherein said central

processing unit is further configured to

display an original file of said desired data within said command line interface;

display an original file location of said desired data within said command line

interface;

indicate within said command line interface deletion of said desired data in

response to said desired data being inadvertently deleted using said command line

interface; and

automatically recycle said file when said file does not contain useful information.

14. (Previously Presented) The system of claim 13 wherein said central

processing unit is further configured to

display with the same window of said command line interface said original file,

said original file location, said indication said deletion of desired data, and said

recovered data.

15. (Previously Presented) The system of claim 14 wherein said operating

system comprises a Linux-based operating system, a UNIX-based operating system or

a Windows-based operating system.

16-22. (Cancelled).

Reason for Allowance

3.   The prior art made of record does not teach or fairly suggest the combination of

elements, as recited in independent claims 1 and 12.

More specifically, the prior art of records does not specifically suggest the

combination of "automatically recovering deleted desired data from said memory of said

data-processing system for display within said command line interface in automatic

response by said system to said desired data being deleted from said command line of

said command line interface; automatically displaying said deleted desired data within

said command line interface, in response to automatically recovering said deleted

desired data from said memory; permitting a user to specify a plurality of rules for

recycling said deleted desired data that the user does not wish to recover; specifying the minimum size of said data to be recycled and/or specifying special files/empty directories not to be recycled" in combination with all the other limitations in the independent claim 1 and "automatically recover deleted desired data from said memory for display within said command line interface in automatic response by said central processing unit to said desired data being deleted from said command line of said command line interface; automatically display said deleted desired data within said command line interface, in response to automatically recovering said deleted desired data from said memory; permit the user to specify a plurality of rules for recycling said deleted desired data that the user does not wish to recover; specify the minimum size of said data to be recycled and/or specify special files/empty directories not to be recycled" in combination with all the other limitations in the independent claim 12.

These features together with other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims 2-6, and 13-15 being definite, enabled by the specification, and further limiting to the independent claims, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

4.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to USMAAN SAEED whose telephone number is

(571)272-4046. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Usmaan Saeed
Patent Examiner, Art Unit: 2166
November 16, 2010

/Usmaan Saeed/
Examiner, Art Unit 2166